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MIME Protocol Modules for TTCN-3 Toolset with TITAN, Function Specification

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1 Introduction

1.1 Revision history

Date	Rev	Characteristics	Prepared
2004-02-18	PA1	First draft version	ETHGASZ
2004-04-22 A		Final revision	ETHGASZ

1.2 How to Read this Document

This is the Function Specification for the set of MIME protocol modules. MIME protocol modules is developed for the TTCN-3 Toolset with TITAN. This document should be read together with Product Revision Information [3].

1.3 Scope

The purpose of this document is to specify the content of the MIME protocol modules.

1.4 References

- [1] ETSI ES 201 873-1 v.2.2.1 (02/2003)
 The Testing and Test Control Notation version 3. Part 1: Core Language
- [2] 1/1553-CRL 113 200 Uen
 User Documentation for the TITAN TTCN-3 Test Executor
- [3] 109 21-CNL 113 352-1 MIME Protocol Modules for TTCN-3 Toolset with TITAN, Product Revision Information
- [4] IETF RFC 2045
 Multipurpose Internet Mail Extension (MIME) Part One:
 Format of Internet Message Body
- [5] IETF RFC 2046 Multipurpose Internet Mail Extension (MIME) Part Two: Media Types

1.5 Abbreviations

ASP	Abstract Service Primitive
IUT	Implementation Under Test
MIME	Multipurpose Internet Mail Extension
SUT	System Under Test



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TTCN-3 Testing and Test Control Notation version 3

1.6 Terminology

No specific terminology is used.

2 General

Protocol modules implement the message structures of the related protocol in a formalized way, using the standard specification language TTCN-3. This allows defining of test data (templates) in the TTCN-3 language [1] and correctly encoding/decoding messages when executing test suites using the Titan TTCN-3 test environment.

3 Functional specification

3.1 Protocol version implemented

This set of protocol modules implements protocol messages and constants of the MIME protocol (see [5] [6]) with the modifications specified in 3.2.

3.2 Modifications/deviations related to the protocol specification

3.2.1 Implemented Messages, Content types, Content encodings and Constants

The following Content encodings are implemented from [5], [6]: Base64, binary, 7bit and 8bit. The quoted-printable encoding is not implemented.

3.2.2 Protocol Modifications/Deviations

The quoted-printable encoding is not implemented.

3.3 Encoding/Decoding and Other Related Functions

This product also contains encoding/decoding functions, which assure correct encoding of messages when sent from Titan and correct decoding of messages when received by Titan. Implemented encoding/decoding functions:

Name Type of formal parameters Type of return value f_MIME_Encode (in PDU_MIME_entity) returns charstring

f MIME Decode(in charstring) return PDU MIME entity;